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1600

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/582,761A

DATE: 03/22/2002 P.6

TIME: 14:26:23

Input Set : A:\EP.txt

Output Set: N:\CRF3\03222002\I582761A.raw

3 <110> APPLICANT: COX, Vivienne, Frances  
 4 SMITH, Richard, Anthony, Godwin  
 5 ROWLING, Pamela, Jane, Elizabeth  
 7 <120> TITLE OF INVENTION: NON-IDENTICAL GENES AND THEIR APPLICATION IN IMPROVED  
 MOLECULAR ADJUVANTS

9 <130> FILE REFERENCE: 37945-0008  
 11 <140> CURRENT APPLICATION NUMBER: US 09/582,761A  
 12 <141> CURRENT FILING DATE: 2000-08-28  
 14 <150> PRIOR APPLICATION NUMBER: PCT/GB98/03918  
 15 <151> PRIOR FILING DATE: 1998-12-30  
 17 <150> PRIOR APPLICATION NUMBER: GB 9727512.7  
 18 <151> PRIOR FILING DATE: 1997-12-31  
 20 <160> NUMBER OF SEQ ID NOS: 46  
 22 <170> SOFTWARE: PatentIn version 3.0  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 100  
 26 <212> TYPE: DNA  
 27 <213> ORGANISM: Artificial Sequence  
 29 <220> FEATURE:  
 30 <223> OTHER INFORMATION: DNA sequence of Fuz1  
 32 <220> FEATURE:  
 33 <221> NAME/KEY: misc\_feature  
 34 <222> LOCATION: (24)..(24)  
 35 <223> OTHER INFORMATION: n is A, C, G or T  
 38 <220> FEATURE:  
 39 <221> NAME/KEY: misc\_feature  
 40 <222> LOCATION: (30)..(30)  
 41 <223> OTHER INFORMATION: n is A, C, G or T  
 44 <220> FEATURE:  
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 46 <222> LOCATION: (33)..(33)  
 47 <223> OTHER INFORMATION: n is A, C, G or T  
 50 <220> FEATURE:  
 51 <221> NAME/KEY: misc\_feature  
 52 <222> LOCATION: (39)..(39)  
 53 <223> OTHER INFORMATION: n is A, C, G or T  
 56 <220> FEATURE:  
 57 <221> NAME/KEY: misc\_feature  
 58 <222> LOCATION: (57)..(57)  
 59 <223> OTHER INFORMATION: n is A, C, G or T  
 62 <220> FEATURE:  
 63 <221> NAME/KEY: misc\_feature  
 64 <222> LOCATION: (63)..(63)  
 65 <223> OTHER INFORMATION: n is A, C, G or T

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69 <221> NAME/KEY: misc_feature
70 <222> LOCATION: (69)..(69)
71 <223> OTHER INFORMATION: n is A, C, G or T
74 <220> FEATURE:
75 <221> NAME/KEY: misc_feature
76 <222> LOCATION: (72)..(72)
77 <223> OTHER INFORMATION: n is A, C, G or T
80 <220> FEATURE:
81 <221> NAME/KEY: misc_feature
82 <222> LOCATION: (78)..(78)
83 <223> OTHER INFORMATION: n is A, C, G or T
86 <220> FEATURE:
87 <221> NAME/KEY: misc_feature
88 <222> LOCATION: (81)..(81)
89 <223> OTHER INFORMATION: n is A, C, G or T
92 <400> SEQUENCE: 1
W--> 93 caccgcgagcc atatgagatc tacnccwgcg ggntchggng arcaraayat gatyggnatg      60
W--> 95 acnccwacng tnatygcngt ncactacctg gaccagaccg      100
98 <210> SEQ ID NO: 2
99 <211> LENGTH: 94
100 <212> TYPE: DNA
101 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: DNA sequence of Fuz2
106 <220> FEATURE:
107 <221> NAME/KEY: misc_feature
108 <222> LOCATION: (19)..(19)
109 <223> OTHER INFORMATION: n is A, C, G or T
112 <220> FEATURE:
113 <221> NAME/KEY: misc_feature
114 <222> LOCATION: (40)..(40)
115 <223> OTHER INFORMATION: n is A, C, G or T
118 <220> FEATURE:
119 <221> NAME/KEY: misc_feature
120 <222> LOCATION: (61)..(61)
121 <223> OTHER INFORMATION: n is A, C, G or T
124 <400> SEQUENCE: 2
W--> 125 ggccagctgc tgggtrtanc cyttyttrat vagytcvagn gcytcytrc gytttytcrat      60
W--> 127 nccraaytty tcccaytgyt cgggtctggtc cagg      94
130 <210> SEQ ID NO: 3
131 <211> LENGTH: 93
132 <212> TYPE: DNA
133 <213> ORGANISM: Artificial Sequence
135 <220> FEATURE:
136 <223> OTHER INFORMATION: DNA sequence of Fuz3
138 <220> FEATURE:
139 <221> NAME/KEY: misc_feature
140 <222> LOCATION: (35)..(35)

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Input Set : A:\EP.txt

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144 <220> FEATURE:
145 <221> NAME/KEY: misc_feature
146 <222> LOCATION: (41)..(41)
147 <223> OTHER INFORMATION: n is A, C, G or T
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151 <221> NAME/KEY: misc_feature
152 <222> LOCATION: (44)..(44)
153 <223> OTHER INFORMATION: n is A, C, G or T
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157 <221> NAME/KEY: misc_feature
158 <222> LOCATION: (68)..(68)
159 <223> OTHER INFORMATION: n is A, C, G or T
162 <220> FEATURE:
163 <221> NAME/KEY: misc_feature
164 <222> LOCATION: (77)..(77)
165 <223> OTHER INFORMATION: n is A, C, G or T
168 <400> SEQUENCE: 3
W--> 169 cccagcagct ggccttyaar carccwtcht chgcntaygc ngcnttyaay aaycgyccwc 60
W--> 171 cwtchacntg gctbacngcc tacgtggtca agg 93
174 <210> SEQ ID NO: 4
175 <211> LENGTH: 106
176 <212> TYPE: DNA
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: DNA sequence of Fuz4
182 <220> FEATURE:
183 <221> NAME/KEY: misc_feature
184 <222> LOCATION: (32)..(32)
185 <223> OTHER INFORMATION: n is A, C, G or T
188 <220> FEATURE:
189 <221> NAME/KEY: misc_feature
190 <222> LOCATION: (35)..(35)
191 <223> OTHER INFORMATION: n is A, C, G or T
194 <220> FEATURE:
195 <221> NAME/KEY: misc_feature
196 <222> LOCATION: (38)..(38)
197 <223> OTHER INFORMATION: n is A, C, G or T
200 <220> FEATURE:
201 <221> NAME/KEY: misc_feature
202 <222> LOCATION: (47)..(47)
203 <223> OTHER INFORMATION: n is A, C, G or T
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208 <222> LOCATION: (62)..(62)
209 <223> OTHER INFORMATION: n is A, C, G or T
212 <220> FEATURE:
213 <221> NAME/KEY: misc_feature
214 <222> LOCATION: (74)..(74)

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DATE: 03/22/2002

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Input Set : A:\EP.txt

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215 <223> OTHER INFORMATION: n is A, C, G or T
218 <220> FEATURE:
219 <221> NAME/KEY: misc_feature
220 <222> LOCATION: (77)..(77)
221 <223> OTHER INFORMATION: n is A, C, G or T
224 <220> FEATURE:
225 <221> NAME/KEY: misc_feature
226 <222> LOCATION: (89)..(89)
227 <223> OTHER INFORMATION: n is A, C, G or T
230 <400> SEQUENCE: 4
W--> 231 ccggttctg cttctccagr atvagccayt tnaengcncc rcavagnacg tgdgartcra      60
W--> 233 tngcratvag rttnngncgv agdgaraana ccttgaccac gtaggc      106
236 <210> SEQ ID NO: 5
237 <211> LENGTH: 95
238 <212> TYPE: DNA
239 <213> ORGANISM: Artificial Sequence
241 <220> FEATURE:
242 <223> OTHER INFORMATION: DNA sequence for Fuz5
244 <220> FEATURE:
245 <221> NAME/KEY: misc_feature
246 <222> LOCATION: (22)..(22)
247 <223> OTHER INFORMATION: n is A, C, G or T
250 <220> FEATURE:
251 <221> NAME/KEY: misc_feature
252 <222> LOCATION: (25)..(25)
253 <223> OTHER INFORMATION: n is A, C, G or T
256 <220> FEATURE:
257 <221> NAME/KEY: misc_feature
258 <222> LOCATION: (40)..(40)
259 <223> OTHER INFORMATION: n is A, C, G or T
262 <220> FEATURE:
263 <221> NAME/KEY: misc_feature
264 <222> LOCATION: (46)..(46)
265 <223> OTHER INFORMATION: n is A, C, G or T
268 <220> FEATURE:
269 <221> NAME/KEY: misc_feature
270 <222> LOCATION: (67)..(67)
271 <223> OTHER INFORMATION: n is A, C, G or T
274 <220> FEATURE:
275 <221> NAME/KEY: misc_feature
276 <222> LOCATION: (70)..(70)
277 <223> OTHER INFORMATION: n is A, C, G or T
280 <220> FEATURE:
281 <221> NAME/KEY: misc_feature
282 <222> LOCATION: (76)..(76)
283 <223> OTHER INFORMATION: n is A, C, G or T
285 <400> SEQUENCE: 5
W--> 286 ggagaagcag aagccggayg gngtnttyca rgargayggn ccwgtnatyc accargarat      60
W--> 288 gatyggnggn ttycgnaacg ccaaggaggc agatg      95

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## RAW SEQUENCE LISTING

DATE: 03/22/2002

PATENT APPLICATION: US/09/582,761A

TIME: 14:26:23

Input Set : A:\EP.txt

Output Set: N:\CRF3\03222002\I582761A.raw

291 <210> SEQ ID NO: 6  
 292 <211> LENGTH: 100  
 293 <212> TYPE: DNA  
 294 <213> ORGANISM: Artificial Sequence  
 296 <220> FEATURE:  
 297 <223> OTHER INFORMATION: DNA sequence of Fuz6  
 299 <220> FEATURE:  
 300 <221> NAME/KEY: misc\_feature  
 301 <222> LOCATION: (19)..(19)  
 302 <223> OTHER INFORMATION: n is A, C, G or T  
 305 <220> FEATURE:  
 306 <221> NAME/KEY: misc\_feature  
 307 <222> LOCATION: (25)..(25)  
 308 <223> OTHER INFORMATION: n is A, C, G or T  
 311 <220> FEATURE:  
 312 <221> NAME/KEY: misc\_feature  
 313 <222> LOCATION: (43)..(43)  
 314 <223> OTHER INFORMATION: n is A, C, G or T  
 317 <220> FEATURE:  
 318 <221> NAME/KEY: misc\_feature  
 319 <222> LOCATION: (55)..(55)  
 320 <223> OTHER INFORMATION: n is A, C, G or T  
 323 <220> FEATURE:  
 324 <221> NAME/KEY: misc\_feature  
 325 <222> LOCATION: (64)..(64)  
 326 <223> OTHER INFORMATION: n is A, C, G or T  
 329 <220> FEATURE:  
 330 <221> NAME/KEY: misc\_feature  
 331 <222> LOCATION: (70)..(70)  
 332 <223> OTHER INFORMATION: n is A, C, G or T  
 335 <220> FEATURE:  
 336 <221> NAME/KEY: misc\_feature  
 337 <222> LOCATION: (73)..(73)  
 338 <223> OTHER INFORMATION: n is A, C, G or T  
 341 <220> FEATURE:  
 342 <221> NAME/KEY: misc\_feature  
 343 <222> LOCATION: (82)..(82)  
 344 <223> OTHER INFORMATION: n is A, C, G or T  
 347 <400> SEQUENCE: 6

W--> 348 gctcccagga aggctrttna cytgnccytc rcaratrtcr cgngcytcyt gvagngcrat 60  
 W--> 350 vagnacraan gcngtvagd g anacatctgc ctccttggcg 100

353 <210> SEQ ID NO: 7  
 354 <211> LENGTH: 101  
 355 <212> TYPE: DNA  
 356 <213> ORGANISM: Artificial Sequence  
 358 <220> FEATURE:  
 359 <223> OTHER INFORMATION: DNA sequence of Fuz7  
 361 <220> FEATURE:  
 362 <221> NAME/KEY: misc\_feature

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/582,761A

DATE: 03/22/2002  
TIME: 14:26:24

Input Set : A:\EP.txt  
Output Set: N:\CRF3\03222002\I582761A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 24,30,33,39,57,63,69,72,78,81  
Seq#:2; N Pos. 19,40,61  
Seq#:3; N Pos. 35,41,44,68,77  
Seq#:4; N Pos. 32,35,38,47,62,74,77,89  
Seq#:5; N Pos. 22,25,40,46,67,70,76  
Seq#:6; N Pos. 19,25,43,55,64,70,73,82  
Seq#:7; N Pos. 26,29,44,74,77,80,86  
Seq#:8; N Pos. 34,37,52,55  
Seq#:9; N Pos. 30,36,39,48,57  
Seq#:10; N Pos. 17,26,29,35,41,47,50,53,80  
Seq#:11; N Pos. 25,31,49,61  
Seq#:12; N Pos. 31,34,37,40,46,49,52,55,61

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 7

## VERIFICATION SUMMARY

DATE: 03/22/2002

PATENT APPLICATION: US/09/582,761A

TIME: 14:26:24

Input Set : A:\EP.txt

Output Set: N:\CRF3\03222002\I582761A.raw

L:93 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:60  
L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:60  
L:169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:60  
L:231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:60  
L:286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:60  
L:348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:60  
L:404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:406 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:60  
L:442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:60  
L:592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:594 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:60  
L:660 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:60